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RAW SEQUENCE LISTING

DATE: 04/09/2002

PATENT APPLICATION: US/10/014,326

TIME: 11:22:46

Input Set : N:\Crf3\RULE60\10014326.raw

Output Set: N:\CRF3\04092002\J014326.raw

1 <110> APPLICANT: JAKOBSEN, Bent Karsten
 2 BELL, John Irving
 3 GAO, George Fu
 4 WILLCOX, Benjamin Ernest
 5 BOULTER, Jonathan Michael
 6 <120> TITLE OF INVENTION: Soluble T Cell Receptor
 7 <130> FILE REFERENCE: 102286.409
 8 <140> CURRENT APPLICATION NUMBER: 10/014,326
 9 <141> CURRENT FILING DATE: 2001-11-13
 10 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/335,087
 W--> 11 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1999-06-17
 12 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: GB/9810759.2
 W--> 13 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1998-05-19
 14 <160> NUMBER OF SEQ ID NOS: 85
 15 <170> SOFTWARE: PatentIn Ver. 2.1
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 33
 19 <212> TYPE: DNA
 20 <213> ORGANISM: Artificial Sequence
 21 <220> FEATURE:
 22 <223> OTHER INFORMATION: Description of Artificial Sequence: Forward poly-C
 23 "anchor" primer for PCR-amplification of cDNAs
 24 extended at their 3'-terminal with a stretch of
 25 G-residues using Terminal transferase. (Figure 4A)
 26 <400> SEQUENCE: 1
 27 taaataactcg aggcgcgccc cccccccccccc ccc 33
 29 <210> SEQ ID NO: 2
 30 <211> LENGTH: 48
 31 <212> TYPE: DNA
 32 <213> ORGANISM: Artificial Sequence
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: Description of Artificial Sequence: Human TCR alpha
 35 chain constant region 3'-specific primer. (Figure
 36 4B).
 37 <400> SEQUENCE: 2
 38 atataacccg gggaaccaga tccccacagg aactttctgg gctgggga 48
 40 <210> SEQ ID NO: 3
 41 <211> LENGTH: 47
 42 <212> TYPE: DNA
 43 <213> ORGANISM: Artificial Sequence
 44 <220> FEATURE:
 45 <223> OTHER INFORMATION: Description of Artificial Sequence: Human TCR beta
 46 chain constant region 3'-specific PCR primer.

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47 <400> SEQUENCE: 3
48      atataacccg gggaaccaga tccccacagt ctgctctacc ccaggcc      47
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51 <211> LENGTH: 33
52 <212> TYPE: DNA
53 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Description of Artificial Sequence: Human c-jun
56      leucine zipper 5'-specific PCR primer.
57 <400> SEQUENCE: 4
58      catacacccg ggggtagaat cgcccggctg gag      33
60 <210> SEQ ID NO: 5
61 <211> LENGTH: 50
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: Description of Artificial Sequence: Human c-jun
66      leucine zipper 3'-specific PCR primer. (Figure
67      5B).
68 <400> SEQUENCE: 5
69      gtgtgtgctc gaggatccta gtagttcatg actttctgtt taagctgtgc      50
71 <210> SEQ ID NO: 6
72 <211> LENGTH: 39
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: Description of Artificial Sequence: Human c-fos
77      leucine zipper 5'-specific PCR primer. (Figure
78      5C).
79 <400> SEQUENCE: 6
80      catacacccg ggggtctgac tgatacactc caagcggag      39
82 <210> SEQ ID NO: 7
83 <211> LENGTH: 49
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: Description of Artificial Sequence: Human c-fos
88      leucine zipper 3'-specific PCR primer. (Figure
89      5D).
90 <400> SEQUENCE: 7
91      tgtgtgctcg aggatcctag taagctgccg ggaatgaactc tagtttttc      49
93 <210> SEQ ID NO: 8
94 <211> LENGTH: 120
95 <212> TYPE: DNA
96 <213> ORGANISM: Homo sapiens
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Partial human c-fos sequence coding for the
99      leucine zipper domain as fused to TCR beta chains.
100      (Figure 6B).

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101 <400> SEQUENCE: 8
102   ctgactgata cactccaagc ggagacagac caactagaag atgagaagtc tgctttgcag 60
103   accgagattg ccaacctgct gaaggagaag gaaaaactag agttcatcct ggcagcttac 120
105 <210> SEQ ID NO: 9
106 <211> LENGTH: 120
107 <212> TYPE: DNA
108 <213> ORGANISM: Homo sapiens
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Partial human c-jun sequence coding for the
111   leucine zipper domain as fused to TCR alpha
112   chains. (Figure 6A).
113 <400> SEQUENCE: 9
114   agaatcgccc ggctggagga aaaagtgaag accttgaaag ctcagaactc ggagctggcg 60
115   tccacggcca acatgctcag ggaacaggtg gcacagctta aacagaaagt catgaactac 120
117 <210> SEQ ID NO: 10
118 <211> LENGTH: 40
119 <212> TYPE: PRT
120 <213> ORGANISM: Homo sapiens
121 <220> FEATURE:
122 <223> OTHER INFORMATION: C-jun leucine zipper amino acid sequence as fused
123   to TCR alfa chains. (Figure 6A)
124 <400> SEQUENCE: 10
125   Arg Ile Ala Arg Leu Glu Glu Lys Val Lys Thr Leu Lys Ala Gln Asn
126       1             5             10             15
127   Ser Glu Leu Ala Ser Thr Ala Asn Met Leu Arg Glu Gln Val Ala Gln
128             20             25             30
129   Leu Lys Gln Lys Val Met Asn Tyr
130             35             40
132 <210> SEQ ID NO: 11
133 <211> LENGTH: 40
134 <212> TYPE: PRT
135 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
137 <223> OTHER INFORMATION: C-fos leucine zipper amino acid sequence as fused
138   to TCR beta chains. (Figure 6B).
139 <400> SEQUENCE: 11
140   Leu Thr Asp Thr Leu Gln Ala Glu Thr Asp Gln Leu Glu Asp Glu Lys
141       1             5             10             15
142   Ser Ala Leu Gln Thr Glu Ile Ala Asn Leu Leu Lys Glu Lys Glu Lys
143             20             25             30
144   Leu Glu Phe Ile Leu Ala Ala Tyr
145             35             40
147 <210> SEQ ID NO: 12
148 <211> LENGTH: 26
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Description of Artificial Sequence: Forward PCR
153   primer for mutating the unpaired cysteine of human

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154      TCR beta chains to serine (Figure 7A).
155 <400> SEQUENCE: 12
156      gactccagat acagcctgag cagccg                      26
158 <210> SEQ ID NO: 13
159 <211> LENGTH: 8
160 <212> TYPE: PRT
161 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Amino acid sequence of the human TCR beta chain
164      after mutating the unpaired cysteine to serine
165      (Figure 7A).
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Description of Artificial Sequence: Amino acid
168      sequence of the human TCR beta chain after
169      mutating the unpaired cysteine to serine (Figure
170      7A).
171 <400> SEQUENCE: 13
172      Asp Ser Arg Tyr Ser Leu Ser Ser
173      1          5
175 <210> SEQ ID NO: 14
176 <211> LENGTH: 26
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: Backward PCR
181      primer for mutating the unpaired cysteine of human
182      TCR beta chains to serine (Figure 7B).
183 <400> SEQUENCE: 14
184      cggctgctca ggctgtatct ggagtc                      26
186 <210> SEQ ID NO: 15
187 <211> LENGTH: 26
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Description of Artificial Sequence: Forward PCR
192      primer for mutating the unpaired cysteine of human
193      TCR beta chains to alanine (Figure 7C).
194 <400> SEQUENCE: 15
195      gactccagat acgctctgag cagccg                      26
197 <210> SEQ ID NO: 16
198 <211> LENGTH: 8
199 <212> TYPE: PRT
200 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Artificial Sequence: Amino acid
203      sequence of the human TCR beta chain after
204      mutating the unpaired cysteine to alanine (Figure
205      7C).
206 <400> SEQUENCE: 16

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207      Asp Ser Arg Tyr Ala Leu Ser Ser
208          1                      5
210 <210> SEQ ID NO: 17
211 <211> LENGTH: 26
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Description of Artificial Sequence: Backward PCR
216      primer for mutating the unpaired cysteine of human
217      TCR beta chains to alanine (Figure 7D).
218 <400> SEQUENCE: 17
219      cggctgctca gagcgtatct ggagtc                      26
221 <210> SEQ ID NO: 18
222 <211> LENGTH: 57
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Description of Artificial Sequence: 5' PCR primer
227      for the human V alpha10.2 chain of the JM22
228      Influenza matrix peptide-HLA-A0201 restricted TCR.
229      (Figure 9A).
230 <400> SEQUENCE: 18
231      gctctagaca tatgcaacta ctagaacaaa gtcctcagtt tctaagcatc caagagg      57
233 <210> SEQ ID NO: 19
234 <211> LENGTH: 15
235 <212> TYPE: PRT
236 <213> ORGANISM: Homo sapiens
237 <220> FEATURE:
238 <223> OTHER INFORMATION: New N-terminal amino acid sequence of truncated V
239      alpha10.2 chain of the human JM22 Influenza matrix
240      peptide-HLA-A0201 restricted TCR. (Figure 9A).
241 <400> SEQUENCE: 19
242      Met Gln Leu Leu Glu Gln Ser Pro Gln Phe Leu Ser Ile Gln Glu
243          1                      5                      10                      15
245 <210> SEQ ID NO: 20
246 <211> LENGTH: 39
247 <212> TYPE: DNA
248 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Description of Artificial Sequence: 5' PCR primer
251      for the human V beta17 chain of the JM22 Influenza
252      matrix peptide-HLA-A0201 restricted TCR. (Figure
253      9B)
254 <400> SEQUENCE: 20
255      gctctagaca tatggtggat ggtggaatca ctcagtcctc      39
257 <210> SEQ ID NO: 21
258 <211> LENGTH: 9
259 <212> TYPE: PRT
260 <213> ORGANISM: Artificial Sequence

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VERIFICATION SUMMARY

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Output Set: N:\CRF3\04092002\J014326.raw

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